

**AGENDA FOR THE 6TH TH MEETING OF THE
WORKING GROUP ON SUSTAINABLE DEVELOPMENT OF TIDAL AREAS (WG-SDTA)**

10 November 2016: 09:00-10:30 hours (Session-I)
10 November 2016: 11:00-12:30 hours (Session-II)
Chiang Mai, Thailand

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2011

Completion of the Mandate: 2016

Mandate: (i) Identify sustainable management options of lowland, watershed, as well as sustainable development and management of water and land resources in tidal areas; (ii) To raise awareness of the increasing risk on tidal areas due to global climate change, stimulate discussion on impacts and mitigation, and find a balance between the preservation and development of tidal areas; (iii) To enhance survey, design techniques and monitoring and management programs for the irrigation and drainage facilities, and apply to collect information about the tidal area environment around the world; (iv) To review the progression of natural wetland conservation and constructed wetland development in tidal areas; (v) To join the international dialogue and organize international conferences to promote land and water management in tidal areas as well as evaluate the feasibility of tidal energy exploitation under global climate change; and (vi) To collaborate with other related working groups actively, and to exchange relevant experiences amongst NCs and support for developing, and least developed countries.

Website: <http://wg-sdta.icidonline.org>

WG-SDTA Agenda Item 1: Action Taken Report by Chair

1. During the last International Executive Council (IEC) meeting (2015), all the workbodies were requested to make use of the video conferencing facilities now being made available by the Central Office which enables monitoring of the actions taken on the decisions made by the WG. A virtual meeting through video conference also provides opportunity of participating in the activities of the WG for those members of the WG who are unable to attend the meeting physically and to continue their membership. The WG may please take note. The Chair will present report on the actions taken on the decisions and proposals of the working group made at its last meeting held at Montpellier in 2015.

WG-SDTA Agenda Item 2: ICID Action Plan 2030: Activities on Sustainable Development of Tidal Areas

2. The 66th International Executive Council (IEC), vide Resolution IEC-4/66 has approved the new Vision, Mission and six Organizational goals of ICID (http://www.icid.org/vision_2030.html). In order to develop action plan, the Consultative Group (CG) requested inputs from ICID Work Bodies in prescribed format in May 2016 to identify actions to achieve the Organizational Goals in their area of activities which would form part of ICID Action Plan for Vision 2030.

3. Since no response was received from the WG, the Central Office has prepared a draft action plan for the group (**Annex 1**) in consultation with the WG Chair. The group will discuss the draft action plan and finalize it during the Chiang Mai meeting and provide its input to PCTA. The updated activity plan incorporating all the comments will be submitted to the Core Group for incorporation in the ICID Action Plan for Vision 2030. WG Chair may provide further updates at the meeting.

WG-SDTA Agenda Item 3: Report on International Short Course on SDTA, 1-6 August 2016 at Taiwan

4. The International Short Course on “*Resilience and Adaptations to Climate Change for Sustainable Management of Tidal Areas*” was organized by ICID’s Working Group on Sustainable Development of Tidal Areas (WG-SDTA) during 01-06 August 2016 at National Cheng Kung University (NCKU) at Tainan City in Taiwan. The course was attended by resource managers, practitioners, researchers, and others who are familiar with the relevant issues in tidal areas and wish to understand and apply the experiences to cope with climate change and man induced changes in land use. The course combined lectures, exercises and study tours to be effective.

5. The lectures were delivered by experts such as Prof. Hong-Yuan Lee (Former Minister, Taiwan), Dr. Sanghyun Park (former Chair of WG-SDTA, Korea), Prof. Bart Schultz and Mr. Henk Ritzema (the Netherlands), Dr. Ruey-Chi Kao (Chairman of WG) and Dr. Hsiao-Wen Wang (member of WG, Taiwan), Dr. John Bourgeois (USA) and Dr. Shinsuke Ota (Japan) covering the general areas of (1) Special characteristics of land and water

management in tidal areas (2) Impacts of climate change on land and water management in tidal area (3) Risk assessment and adaptive management considering climate change (4) International experiences of adaptations to climate change (5) Stakeholders participation (6) Development of water industry. The lectures were supplemented with group exercises and their presentations. The course was successfully attended by 20 participants from 14 countries which covered Asia, Africa and North America.

6. The members of the WG-SDTA i.e. Chairman Prof. Ruey-Chy Kao (Taiwan), Vice Chairman Dr. Henk P. Ritzema (the Netherlands), Dr. Jang, Jeongryeol (Korea), Dr. Wang, Hsiao-Wen (Taiwan), Dr. Wignyo Sukarto, Budi S. (Indonesia) and Dr. Vijay K. Labhsetwar (India, representing Secretary General, ICID) also had interim meeting of the WG and discussed issues emerged from its Montpellier meeting in 2015 and preparation of Scoping Document for continuing the activities of the WG for another six years. The Chairman may apprise the WG members.

WG-SDTA Agenda Item 4: E-Discussion on ‘Sustainable Development of Tidal Areas’ launched during the Short Course on SDTA at Taiwan

7. While the short course, as above, was organized successfully, in order to promote the young professionals, the idea of launching e-Discussion on “*Sustainable Development of Tidal Areas*” cropped up during the interim meeting of SDTA at Taiwan. A Background Note describing the e-Discussion, facilitated at ICID’s YPeF (Young Professionals e-Forum), is available at **Annex 2** (http://www.icid.org/ypfef_dis_sdta.pdf). The e-Discussion took place from 12-31 August 2016 providing a platform for young professionals to come together and share their knowledge and experiences on SDTA. The Chairman may apprise the members.

WG-SDTA Agenda Item 5: Publications of the Working Group: A Special Issue of ICID Journal on SDTA in 2016

8. During the Montpellier (2015), the WG decided to publish a Special Issue of ICID Journal on SDTA in 2016. The theme of the Special issue is “*Sustainable Development of Tidal Areas: Climate change and environmental impacts*”. The Special Issue will contain select papers from the past International/Internal workshops of the WG. The Special Issue will have about 10-12 papers of 10 pages each. The Review Committee i.e. Prof. Henk P. Ritzema (The Netherlands) and Prof. Hsiao-Weng Wang (Chinese Taipei) have been reviewing the papers for the Special Issue of the ICID Journal on SDTA. The review process will be similar to that used by the Editorial Board of the Journal on Irrigation and Drainage. The Chair may apprise the members during the meeting.

WG-SDTA Agenda Item 6: Updating Multilingual Technical Dictionary (MTD)

9. At the 65th IEC, it was decided that ICID Central Office will bring out an online version of the MTD and make it available through ICID website. In this connection, Central Office is collecting the terms available with different NC in their respective languages, based on 2010 version of MTD. During Montpellier meeting in October 2015, the Permanent Committee for Technical Activities (PCTA), considering this as an important input for working towards SDGs, recommended setting up of new workbody to review/ update the existing MTD with representatives from various specialised fields at the same time representing various languages. Accordingly, a Task Force on MTD has been proposed to be set up with WG Chair/ nominee as members along with members from various experts from international organizations (Refer PCTA Agenda Item 4, page 82).

10. At the Montpellier meeting (2015), Chair of the WG discussed the issue and Prof. Hajime Tanji (Japan), Secretary of the WG volunteered to take up the task. The issue was brought to the fore at the interim meeting of the WG at Taiwan as well. Prof. Tanji/ Chair may apprise the members.

WG-SDTA Agenda Item 7: Summary of activities, Closure report and Scoping Document for a new WG

11. The summary report of the activities of the WG (2011-2016) has been prepared and circulated to members. Since the WG is completing its mandate in 2016, the Chair will present a closure report (**Annex 3**) giving brief description of how its intended objectives and mandate have been achieved, including conclusion, recommendations and way forward.

12. Further, in order to continue the WG with the new mandate, the Chair would be presenting the Scoping Document (SD) to WG for deliberation and onward submission to PCTA/IEC for approval.

WG-SDTA Agenda Item 8: Dissemination of activities of WG - Website of the Group

13. Members have been requested for their active participation in the activities of the WG and facilitate exchange of information, knowledge and experience, as well as networking on the topic in order to keep themselves up-to-date with new developments in the field of SDTA. Members have also been requested to provide information, papers, presentation made on topics related to scope of the WG to the ICID Central Office for uploading on the web site of the WG. Members will discuss and evolve methodology for sharing of information and updating of WG

website. In order to ensure regular contribution of the members, WG is encouraged to make full use of Web-Ex platform for virtual meetings in between two face to face meeting during IEC. The members may discuss and Chair may apprise the members during the meeting.

WG-SDTA Agenda Item 9: Review of membership of the working group

14. In order to increase the efficiency and functioning of the Working Group during annual face to face meeting and avoid spending a lot of time on administrative matters, it was decided by the Management Board (MB) that the admission of new members or discontinuation of the membership of the group will be dealt by Chairman in consultation with Vice Chair, Secretary and ICID Central Office prior to the meeting itself through emails/ web conference.

15. The Sri Lankan National Committee of ICID (SLNICID) and Indian National Committee on Surface Water (INCSW) have nominated Eng. L.S. Sooriyabandara (Sri Lanka) and Mr. Anuj Kumar (India), respectively, for the membership of the group. The existing membership of the WG and new nominations are given at **Annex 4** (see *the electronic version for the latest list*). Any new nominations for the membership received during the meeting will be dealt suitably after the meeting.

WG-SDTA Agenda Item 10: Any other business

SUPP: Webinar/ web-based seminar

Webinar/ web-based seminars are organized on web platform using video conferencing. This platform is used to organize workshop, seminar, presentations, etc. Many international organizations are using this platform to disseminate their knowledge. In order to share vast expertise available with ICID fraternity with Members of the NCs, it is proposed to organized on average about 2 webinars per month with the support of WG experts. WG will discuss and suggest 5-6 topics, based on the mandate of the WG, on which webinar can be considered along with name of the relevant experts who could be contacted to develop webinars.



NOTES FOR CHAIRPERSON:

1. Draft minutes of this meeting to be submitted to ICID Secretariat at Chiang Mai (Thailand) after the meeting.
2. Chair to participate and present the WG report to PCTA meeting on 11 November 2016.

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: Prof. Dr. Ruey-Chy Kao, Dr. Henk P. Ritzema (Vice-Chairman) and Dr. Hajime Tanji (Secretary)

Dated:

		Outcomes / Outputs	Milestone for Year2017	Milestone for Year2018	Milestone for Year2019	Milestone for Year2020	Milestone for Year2021
Goal 1: Enable higher crop productivity with less water and energy			Milestone 1	Milestone 2	Milestone 3	Milestone 4	Milestone 5
	Activity 1.1						
Goal 2: Be a catalyst for change in policies and practices	Activity 2.1						
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Organise internal / International Workshop	Workshop Proceedings	Workshop		Workshop		Workshop
	3.2 Special Issue of ICID Journal on SDTA	Special Issue of IRD	Announcement of special issue, inviting authors etc.	Setup Review Committee for selected papers based on the workshops	Submission of final drafts	Publish Special Issue of IRD	
Goal 4: Enable cross disciplinary and inter-sectoral engagement	WG Activity 4.1						

		Outcomes/ Outputs	Milestone for Year2017	Milestone for Year2018	Milestone for Year2019	Milestone for Year2020	Milestone for Year2021
Goal 5: Encourage research and support development of tools to extend innovation into field practices	WG Activity 5.1						
Goal 6: Facilitate capacity development	6.1 Short Course/ Training Workshop on Sustainable Development of Tidal Areas	Training Workshop	Scope, theme and announcement	Short Course/ Training Workshop on SDTA		Short Course/ Training Workshop on SDTA	
	6.2 To launch e-Discussion on Sustainable Development	E-Discussion	e-Discussion on Sustainable Development of Tidal Areas		e-Discussion on SDTA		e-Discussion on SDTA

SUSTAINABLE DEVELOPMENT OF TIDAL AREAS
ICID Young Professionals e-Forum (IYPeF)
<https://www.linkedin.com/groups/6990321>

Background Note for e-Discussion
12-31 August 2016

Introduction

The Working Group on Sustainable Development of Tidal Areas (WG-SDTA) promotes collaboration between professionals and practitioners to improve the planning, design and management of irrigation, drainage and flood management schemes and projects in tidal areas. It attempts to raise awareness of the increasing risk of tidal areas due to global climate change, man induced changes inland use and overexploitation of natural resources to stimulate discussion on impacts and mitigation, and find a balance between the preservation and development of tidal areas. The Group has been advocating international dialogues to improve the resilience of tidal areas. The mandate of the Working Group will expire in 2016 and the Working Group is looking for advice and suggestions to re-formulate its mandate for the next 6 years.

Objectives

This discussion on sustainable development of tidal areas has the following objectives:

1. Bring young professionals in contact with experts in the field;
2. Discuss how young professionals can be integrated into the working group in a more formalized manner;
3. Discuss the challenges faced by the working group;
4. Bring together Young Professionals to discuss challenges to increase the resilience and adaptation strategies to climate change and man induced changes in land use for sustainable management of tidal areas;
5. To provide a platform to discuss and formulate these challenges;
6. To prepare a discussion paper on this subject for the ICID Working Group on Sustainable Development Tidal Areas.

Outcome

It is intended that the discussion in IYPeF will result in a discussion paper for the Working Group on SDTA to address the following questions:

1. What are the challenges to increase the resilience and adaptation strategies to climate change and man induced changes in land use for sustainable management of tidal areas?
2. What are the underlying causes?
3. What are the possible solutions to increase the resilience in tidal areas?
4. What can the Working Group contribute to develop adaptation strategies for a more sustainable development of tidal areas?

Role of the mentors

Members of the Working Group and professionals will follow the discussion on the forum and provide their inputs and advice to encourage the discussions and whenever they feel necessary thereby steering the group to discuss possible actions to the identified questions.



SUMMARY OF ACTIVITIES OF WG-SDTA (2011-2015)

2011

- (a) During Tehran (2011) meeting, the WG-SDTA was brought out a publication titled “Towards Sustainable development of Tidal Areas: Some Principles and Experiences” to improve the planning, design and management of irrigation and drainage projects in tidal areas which was released during 21st ICID Congress in Tehran, Iran in 2011.
- (b) The Japanese National Committee of ICID (JNC-ICID) was also brought out a new publication on ‘Japanese Proceedings on Sustainable Development of Tidal Areas’, disseminated among NCs and members of the WG.
- (c) An Internal Workshop of the Group titled “Sustainable Water / Environment Management in Tidal Areas” with five sub-themes – (i) Water quality management in tidal areas; (ii) ecological resources management in tidal areas; (iii) flood management in tidal areas; (iv) engineering for sustainable development of tidal areas; and (v) integrated tidal area management and decision and policy making. The selected papers of the workshop would be published in a Special Issue of ICID Journal on SDTA in 2012 Adelaide (Australia) conference.
- (d) Prof. Ruey-Chy Kao (Chinese Taipei) and Prof. Kazuaki Hiramatsu (Japan) were elected as new Chairman and Secretary of the WG-SDTA. Triennial ‘Best Performing Workbody’ Award was given to WG-SDTA in the presence of former chairman Dr. Park Sang Hyun (Korea) and made his valuable contributions in the working group.

2012

- (a) During Adelaide meeting (2012), Prof. Zhanyu Zhang (China) and Ir. Hj. Nor Hisham bin Mohd Ghazali (Malaysia) were elected as new members of the WG.
- (b) The WG would organize a workshop on ‘Environmental Impacts and Sustainable Management of Tidal Areas’ in October 2013 at Mardin, Turkey. The Group would bring out a Special Issue of ICID Journal on ‘Sustainable Water and Land Management in Tidal Areas’ in 2013. The Special Issue would contain 12 peer reviewed papers from Chinese Taipei, Korea, Japan, Indonesia and The Netherlands and edited by the Guest Editors. The Special issue will be sponsored jointly by Korean National Committee (KCID), Japanese National Committee (JNC-ICID) and Chinese Taipei Committee (CTCID).

2013

- (a) During Mardin meeting (2013), Dr. Hajime Tanji (Japan) was elected as member and assumed the position of Secretary of the WG. An internal workshop on ‘Environmental Impacts and Sustainable Management of Tidal Areas’ and sub-themes were : (a) Impacts of climate change on tidal areas: Risk assessment; Adaptive management with consideration of climate change; (b) Flood/Ecosystem management; monitoring, forecasting, impacts, mitigation, strategies and vulnerability assessment; and (c) Stakeholder involvement and integrated management. Nine papers were presented from Korea, Netherlands, Bangladesh, Malaysia, Taiwan, Japan and Indonesia.
- (b) The WG published a Special Issue of ICID Journal titled “Sustainable Water and Land Management in Tidal Areas” (Volume 62, Issue Supplement S1) in October 2013. This issue contained 12 peer reviewed papers submitted by experts from Chinese Taipei, Korea, Japan, Indonesia and the Netherlands.
- (c) The WG will organize an International Workshop during 22nd ICID Congress and 65th IEC at Gwangju, Korea. The main theme of the workshop will be “Sustainable Management of Tidal Areas in the Era of Climate Change’ with six sub-themes.

2014

- (a) During Gwangju (2014) meeting, Dr. Jeongryeol Jang (Korea) was elected as new member of the WG-SDTA.
- (b) An International Workshop on ‘Sustainable Management of Tidal Areas in the Era of Climate Change (IW-SDTA) was held on 14 September 2014 at Korea with 8 sub-themes. Seven papers from Korea (4),

Indonesia (1), Taiwan (1) and Japan (1) were presented during the workshop. The workshop highlighted new information relevant to the sustainable management of tidal areas in the era of climate change.

- (c) The WG decided to organize a Short Course on ‘Resilience and Adaptations to Climate Change for Sustainable Management of Tidal Areas’ in 2015. The Group was also decided to publish a Special issue of ICID Journal on SDTA in 2016.

2015

- (a) During Montpellier (2015) meeting, the WG organized an Internal Workshop on ‘Environmental Hazards in Tidal Areas’ on 13 October 2015. Five papers from The Netherlands, Japan, Chinese Taipei, Indonesia and Korea were presented. These papers will be considered for publishing in Special Issue of ICID Journal in 2016.
- (b) The WG decided to organize an International Short Course titled ‘Resilience and Adaptations to Climate Change for Sustainable Management of Tidal Areas’ in 2016. There will be four topics i.e. (a) Special characteristics of land and water management in tidal areas; (b) Impacts of climate change on land and water management in tidal area; (c) Risk assessment and adaptive management considering climate change; and (d) International experiences of adaptations in SDTA to climate change.
- (c) The Group was also decided to publish a Special issue of ICID Journal on SDTA in 2016. The cost of the publication of Special Issue US\$ 15,000 shared by the Japan National Committee, Korean National Committee of ICID and China National Committee of ICID.
- (d) The Group is planning to make a final report of WG-SDTA for a period 2011 to 2016 to be prepared by Chairman in cooperation with Vice-Chairman and Secretary. The WG will conclude its mandate in 2016 and a ‘Scoping Document’ will be developed by Chair and presented in the next meeting of the group in November 2016 at Chiang Mai, Thailand.



Annex 4 [Appendix XI, Item 9]

A. Members and their attendance at 2014 and 2015

Sl. No.	Members	Member From	2014		2015		Remarks
			Self	Contributed by mail	Self	Contributed by mail	
1.	Dr. Ruey-Chy Kao Chairman (2011) (Chinese Taipei)	2007	•		•		
2.	Ir. Henk P. Ritzema, Vice-Chairman (2009) (The Netherlands)	2002	-		•		Contributed in 2015
3.	Dr. Hajime Tanji, Secretary (Japan)	2013	•		•		Contributed in 2016
4.	Dr. (Ms) Hsiao-Weng Wang, (Chinese Taipei) as Young Professional	2010	# ¹		•		
5.	Prof. Budi Santoso Wignyosukarto (Indonesia)	2011	•		•		
6.	Dr. Jeongryeol Jang (Korea)	2014	•		•		
7.	Prof. Zhang Zhanyu (China)	2012	•		-		
8.	Ir. Hj. Nor Hisham bin Mohd Ghazali (Malaysia)	2012	•		-		
9.	Secretary General, ICID		#		#		
Permanent Observers / Observers							
1.	Dr. Jo Jin Hoon (Korea)						
2.	Dr. Daeou Eo (Korea)						
3.	Mr. Robiyanto Hendro Sustano (Indonesia)						
4.	Mr. Harry Denecke (FAO)						

B. New nominations received from the National Committees

Sl. No.	Name	Country	Remarks
1.	Eng. L.S. Sooriyabandara	Sri Lanka	Recommended by Chair subject to his presence or else Provisional Member
2.	Mr. Anuj Kumar	India	Recommended by Chair subject to his presence or else Provisional Member



¹ # Through Representation